

Product datasheet for **MR209112**

Spata7 (NM_178914) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Spata7 (NM_178914) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Spata7
Synonyms:	A1661438; B230306G18Rik; HSD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209112 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATGGCAGCCGGAGAGTCAGAGCAACCTCTGTCTCCCAGATACAGCCCTCCATGCTTGTTTACAG
 GACACCTGAGCACCAAGAGCAACGCTTTTTGCACTGATTCTTCTCTCAGACTAAGCACCTGCAGCT
 GGTCAAGAACCACATGGCTATTCACATAATAAAATCCTTTAGCCAAAGCCGAGTGGACTGCTCAATT
 CCAGTAAGTGTGAATACTAGCATCAAATATGCTGACCAACAACGAAGAGAAAACTGAGGAAGGAGTTGG
 CACGGTGTGAAAAGGAGTTAAATTAAGTAAATCTGCTATGCAGACCAATTCTAAGATGAATCCAAGTT
 CTTTGTAAATCTCTACAGAAGCCCTCAGGGGAACCACAAGACCAGGATGTGTTTATAGAAGAAATGACA
 AGATACCCATCATTTTCAAAGTCACTCATCCCTTCTCCGAGGGACTGCATCTAAGTCTGCCTGAATCAA
 GTAAGATGCTCATGAGTGGCACCCAGAAGCATGCCAGCACCTCTCCATCCAGACACTCAGGCTGTGGGCA
 TGGCTGCGACAGGCGGCCCTCGGAGTGCCACCAGTTCCAGGTAGCCCTCGCCAAGACCCCAAGTGGAGAT
 CTGTTGAAAAGCACTCTGACCTTCTCTAACAAGCAGTCGCCATTCCTCCAGCAACTTTAAAAACAG
 AAGCAAAGTCCTTCTGTACAGTACCGTACTACACACCTGCCAAAAGAAAGGATTTTTAGATCA
 GCGGATGGAAGCTGAAACCCAACTGAATTAAGCAGCTTAACTCTGAGCTTGGGACAGCTGAGAAAACG
 AGCTCAAAGGACTCAGAAGTGAACATAAACCCAGGTACCTAATTACACGAGAAATGGTGTGAAGCAAAA
 TAGCTCCTTTACCTCACAAGGACAAAACCTTAGCATGGGACAGTATTCAAGATGGGATTCGACAGCTC
 CTCAGAAAGGGCATCCTGTAAGCTCTCCACAGATTTTCTCCAGACAGTAAATCTACTCTGATGAAGAA
 GAGTCTGTACCTGAGTTTTCATGAAAATGTGACGGATGAAATCTTGAACCTTGGTTTATTTTCTAACA
 GGTCTTAGAGCGACTGTTTGGAGCAGATATAAAGAAAAATAACATCATTGGAGGAGGAAAGATGCG
 CTACCTGCTGCATGGGCTGAAGGTTGACTTAGGCTGCATATCTGAGGAAGACCCAGCAAAAGCAAAAACAT
 TTCAGAATGTTGAATCAACTTCATTTTCAAAGGCTCTGATTTCAAGAGAAAATGAGTTTGTAAGTGATG
 AAGAAACAGTGAATCACCACGAGCGCCAGCAGTACCAGGAGGCCCTGGACATGCTGTGCGCTGTGCCGAA
 GGACGAAAACAAGATGTTCTCTTACCAGGCGAATTTTTAATACCCGCCATAAAGTCAAGCATTGAGAG
 GGTGTTAATTAACAGGTCAATGACGAAACAGATAATGAAGCCTCACCTGGAATGAAAAACATCCAA
 GTGTTTCTGATAGTGAATAGACCAGGAAACCTCTGTGGATGTCATTGAAGGTGACAGTACTTTGAAAG
 GGCTGAGACTCCAGGAACTCTGTTGTCTGAGCACATCACTGTCCCATCTGGTCCATTCCCAGCATC
 AATGGTGGCAGTAATCATGGTAAGGAATTATCGACTCTACGAATCATGGGAATGAGCATTGAAGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209112 protein sequence
 Red=Cloning site Green=Tags(s)

MDGSRVRATSVLPYSPPLFTGHLSTKSNFCTDSSSLRSLSTLQLVKNHMAIHYNKILSAKAAVDCSI
 PVSVNTSIKYADQQRREKLKELARCEKEFKLSKAMQTNMNSKFFVNSLQKPSGEPQDQDVFIEEMT
 RYPSFSKSLIPSEGLHLSLPESKMLMSGTQKHASTSPSRHSGCGHGCRRRPRSAHQFQVALAKTPSGD
 LLEKHSDFSNKQSPFTPRTLKTEAKSFLSQYRYTTPAKRRKDFSDQRMEAEQTTELSSFNSELGTAEKT
 SSKDSEVINQVPNYTRNGAEDIAPLPSQGQNLAWDSIQDGILQQSSERASCKLSTEFSPDSKIYSDEE
 ELLYLSFMENVTDEILKGLFSNRFLERLFERHIKKNKHHLEEGKMRYLLHGLKVDLGCISEEDPAKQKH
 FRMLNQLHFQKALISRENEFVSDEETVSHHERQQYQEALDMLSAVPKDENKMFSLPGEFLIPAHKVKHSE
 GVIIQQVNDNETDNEASPNWENNPSVSDSVIDQETSVDVIEGSDSDFERAETSRELCLSTSLSPSGPFPSI
 NNGSNHGKELSTLRIMGMSIED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_178914

ORF Size: 1749 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
 5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_178914.4](#)

RefSeq Size: 2071 bp

RefSeq ORF: 1749 bp

Locus ID: 104871

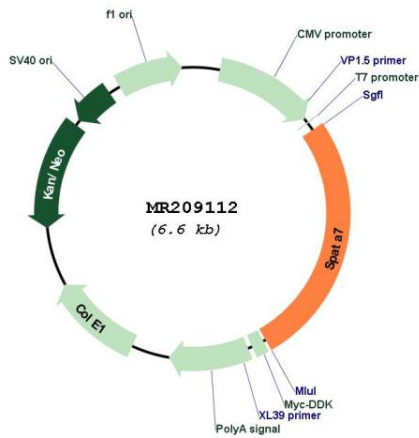
UniProt ID: [Q80VP2](#)

Cytogenetics: 12 E

MW: 65.7 kDa

Gene Summary: Involved in the maintenance of both rod and cone photoreceptor cells (PubMed:25398945, PubMed:29100828, PubMed:29899041). Required for photoreceptor-specific localization of proximal connecting cilium (CC) proteins RPGR, AHI1, NPHP1, NPHP4, and RPGRIP1 at the distal CC, a photoreceptor-specific extension of the primary cilium transition zone (PubMed:25398945, PubMed:29100828, PubMed:29899041). Maintenance of protein localization at the photoreceptor-specific distal CC is essential for normal microtubule stability and to prevent photoreceptor degeneration (PubMed:25398945, PubMed:29899041). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209112